Also, in accordance with 37 C.F.R. § 1.121, attached hereto is a marked-up version showing the changes made by the present amendment.

Please amend the above-referenced patent application as follows:

IN THE CLAIMS:

Please amend claims 1 and 15, cancel claim 16 and add new claims 21-24 as follows:

1. (Amended) A molded polyurethane body obtained by reacting

a) at least one aliphatic polyol having a molecular weight of 450 to 6000 g/mol and an hydroxyl value of 10 to 235;

b) with an aliphatic diisocyanate, a cycloaliphatic diisocyanate or both, in an equivalent ratio of diisocyanate to polyol of 1.2 : 1.0 to 16.0 : 1.0;

c) with a diol as a chain lengthening agent having a molecular weight of 60 to 450 g/mol, the NCO index formed from the quotient, which is multiplied by 100, of the equivalent ratio of isocyanate groups to the sum of the hydroxyl groups of polyol and chain lengthening agents lying within a range of 90 to 105; and

d) with an at least bifunctional reaction component comprising an isocyanate, which is suitable for subsequent cross-linking, and which reacts with the terminal hydroxyl groups of the polyurethane chain as well as with the acidic hydrogen atoms of the urethane groups and leads to branched-chain reactions, the thermoplastic polyurethane formed by conversion from the components a) through c) in a first step being homogeneously mixed in a second step, using a tumbling mixer, with 0.2 to 25 parts by weight of component d) with respect to 100 parts by weight of the

thermoplastic polyurethane, formed into a molded body, and subsequently cross-linked at temperatures from 80 to 240°C, wherein the polyurethane body is dimensionally stable up to at least 150°C.

15. (Amended) A method for producing a molded polyurethane body according to Claim 1, comprising the steps of producing a thermoplastic polyurethane molding material from components a) through c) and well homogenizing the polyurethane molding material in a powdered or granular form with component d), and forming the homogenized material into a molded body and subsequently cross-linking at temperatures of 80 to 240°C, wherein component d) is applied in a liquid, paste-like, or solid form at room temperature in a tumbling mixer by tumbling on the thermoplastic, polyurethane molding material obtained from the components a) through c) in the first step.

Please cancel claim 16.

21. (New) A molded polyurethane body obtained by reacting

a) a polycaprolactone;

b) with a 1,6 hexamethylene diisocyanate;

c) with a 1,6 hexane diol; and

d) with a triisocyanate suitable for cross-linking and having a molecular weight of 478 g/mol and an isocyanate content of 16% by weight, the thermoplastic polyurethane formed by conversion from the components a) through c) in a first step being homogeneously mixed in a second step, using a tumbling mixer, with 8 parts by weight of component d) with respect to 100 parts by weight of the thermoplastic

polyurethane, formed into a molded body, and subsequently cross-linked at temperatures from 80 to 240°C, wherein the polyurethane body is dimensionally stable up to at least 150°C.

22. (New) A molded polyurethane body obtained by reacting

a) a polycaprolactone;

b) with a 1,6 hexamethylene diisocyanate;

c) with a 1,6 hexane diol; and

d) with a dimeric isocyanate based on isophorone diisocyanate having a uretdione structure and an isocyanate content of 16% by weight, the thermoplastic polyurethane formed by conversion from the components a) through c) in a first step being homogeneously mixed in a second step with 10 parts, using a tumbling mixer, by weight of component d) with respect to 100 parts by weight of the thermoplastic polyurethane, formed into a molded body, and subsequently cross-linked at temperatures from 80 to 240°C, wherein the polyurethane body is dimensionally stable up to at least 150°C.

23. (New) The molded polyurethane body of claim 21 wherein the body is selected from the group consisting of: i) a surface material for application in the interior of a motor vehicle, ii) a packaging for food, iii) a molded body or film for hygienic or medicinal application, and iv) a hot melt-adhesive or adhesive material for textile application.

24. (New) The molded polyurethane body of claim 22 wherein the body is selected from the group consisting of: i) a surface material for application in the interior of a motor vehicle, ii) a